What Meta Forge is and for Who

Historical Background

- From the early 1980s
- a group of the brightest and most ambitious adults
- integrating strong tradition in mathematics and science worldly
- mechanism of direct entering top universities
- manifestation in subject Olympiads
- manifestation in whole society's Youth "Education"

Compared to the scene of American sports training

- similar internal structural dynamics
- driven by commercial and personal achievement motivations vs driven by the desire to secure spots in the best universities
- highly diverse society values & abundant sports evens vs highly unified society value orientation & focused on the five main science subjects
- three medal winners per event vs about 500 positions in a country with a population of over ten million per grade

Performance in all aspects

- Subjects　contents
- Subjects ability of trainees
- heavy cost in whole life

The key here is EFFICIENCY…

So, Inheritance and Abandonment are both necessary---That's is Meta Forge

Consistency of core values on 2 tiers

- Core tier
  - Free learning and practice content published
  - aligned with the paid courses in the English World currently
- Mastery tier
  - ultimate goal of Meta Forge
  - own strong meta-abilities and an extensive toolkit of mathematical and scientific tools

- structured, clear progression that helps students' efficiency

Mathematics : foundational core position and 2 Phases

Phase 1: Levels 1–3

- Calculation (CAL)
- Application Problems (APP)
- Geometry (GEO)
- Logic Patterns (LGP)
- Counting (CNT)
- Number Theory (NT)
- Combinatorics (CMB)
- Motion/Travel Problems (MOV)

Session Naming Conventions: Core(Mastery) – Level X – Module abbreviation (e.g. GEO) – Session No.

Suggested learning and practicing rhythm:

Academic goals:

Mathematics : foundational core position and 2 Phases(cont.)

Phase 2: Levels 4–6

- Algebra (AGL)
- Geometry (GEO)
- Number Theory (NT)
- Combinatorics (CMB)

Academic goals:

Physics :

Pursuing after reaching at least Core Level 5 in mathematics because of toolsets

- Mechanics (MEC)
- Thermodynamics (THM)
- Electromagnetism (EMG)
- Quantum Mechanics (QTM)

Academic goals:

Algorithms(Informatics) :

Pursuing after reaching at least Core Level 4: natural transition from mathematical abstraction to algorithm modeling in cyberspace

- Data Structures (DSA)
- General Algorithms (ALG)
- Dynamic Programming (DPG)
- Linear Algebra & Number Theory (LNT)
- Combinatorics (CMB)
- Computational Geometry (CGM)
- String Algorithms (STR)
- Graph Theory (GPH)

Academic goals:

Summarize:

Anyone with normal intelligence should engage in developing meta-thinking abilities in the AI era---actually, any era…

Next Step: “Why need Meta Forge” Session

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